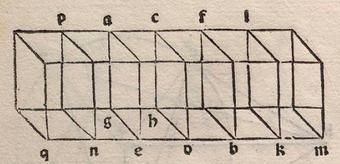
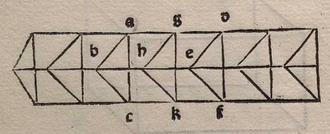



scie in primo libro posite necesse est quasq; duas superficies in solido.a.b.oppositas esse sibi inuicē equales qđ est propositū.

## Propositio .25.

Si superficies quedā secet solidū paralellogramū eqdistā/ter duabus iplius solidi supficiebus oppositis duo partialia corpora que ad illam secantem superficiē velut ad cōmunē terminū copulant̄ suis basibus sunt proportionalia.

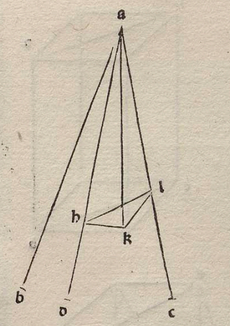
¶Sit corpus.a.b.solidū palellogramū z secet ipsum supficies.c.d. equidistanter duabus eius oppositis supficiebus que sunt.a.e.z.f.b.z sit supficies g.b.basis ipsius solidi.a.b.de qua constat per premissā q ipsa sit equidistantium latez z sit cōis sectio duaz supficiez.c.d.z.g.b.linea.b:d.de qua constat p. .buius q ipsa sit linea recta z p.16.huius q ipsa sit equidistans.g.e. ideoq; sunt due superficies.g.d.z.b.b.equidistantiū latez z ipse sunt bases duoz ptialiū corpoz in que supficies.c.d.diuidit solidum.a .b. dico itaq; q pportio solidi.a:d.ad solidū.b.c.é sicut basis.g.d.ad basim.b.b.protrabant̄ eni vtrinq; quātū libuerit.quatuor linee penetrantes supficiē.c.d. sup eius angulos z ipse sunt.a.f.z.e.b.cū duabus reliquis sibi equidistantibus. Sumant̄q; ex eis omnib9 portiones ex pte puncti.b.quot libuerit que ponant̄ singule eqles linee.b.d. z ex parte puncti.c.alie sint quot libuerit que ponant̄ equales linee.e.d.sup quas vtrinq; pstituā̄ solida palellograma scōm suaz longitudinē exigentiū.Sintq; ex p te puncti.b.solida.f.k.z.l.m.z ex pte puncti. e.solida. a.n.z.q. a.critq; ex dione corpoz equaliū atq; similiū vnūqōq; solidoz.f.k.z.l.m.equale solido.e.b. z vnūqōq;.a.n.z.p.q. é equale a.d.fiat igit̄ argumētū q̄eadmodū i prima sexti é eni solidū.c.m.ita multiplex solidi.b.c.sic basis.b.m.basis.b.b.z solidū.q.c.ita multiplex solidi.a.d.sic basis.q.b basis.g.d.z si basis.b.m.é eqlis basi.q.b.solidū.e.m.est eqle solido.q.c.ex dione corpoz equaliū atq; similiū z si basis é minor basi z solidū é min9 solido z si maior mai9 qō p3 ex dione eadē resecata maiori basi ad eqlitatē minoris z descripto supeam solido palellogramo.itaq; ex dione icōtinue pportionalitatis pportio solidi a.d.ad solidū.c.b.sicut basis.g.d.ad basim.b.b.qō est ppositū. Qō si supficies aliqua secet corpus seratile equidistanter duabus eius triangularibus supficiebus oppositis duo partialia corpora que ad illā secantē superficiē velut ad cōem terminum copulant̄ suis basib9 erūt proportionalia.¶Sit eni.a.f.corpus seratile cuius sint due trigone supficies.a.b.c.d.e.f.Cōstat igit̄ ex dione secratilis vnāquāq; trium supficiez que sunt.a.b.d.e.b.c.e.f.a.c.d.f.cē paralellogramū: secet igit̄ supficies.g.b.k. istud seratile equidistanter duabus eius oppositis supficiebus q̄ sunt a.b.c.d.e.f.dico q pportio seratilis.a.k.ad seratile.g.f.é sicut basis.a. k.ad basim.g.f.qō sicut de solidis palellogramis pbaz pti actis eni in vtrāq; ptē lineis.a d.b.e.c.f.factisq; inter eas ex pte puncti.e.seratilibus equalibus seratili. g.f.z ex pte puncti .b.alijs equalibus seratile.a.k.vtrinq; quotis numero ex dione inconuinne pportionalitatis.si cuncta vigili mente plustres nō erit tibi difficile cōclude/re quod diximus.

## Propositio .26.

Super datum punctū date linee angulo solido proposito equalē angulū solidū constituere. ¶Solidus angulus propositus sit.a.qui cōtineat tribus lineis.a.b.a.c.a.d.tres superficiales angulos ipsū solidū pficientes cōtinentib9 eni sup punctū.e. linee.e.f. ppositē que ad libitū pponentis iaceat:aut in sublimi cōsurgat iubeamur

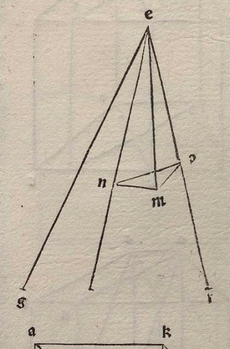


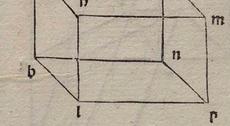
equalē angulum solidū cōstituere qualiscūq; sit situs linee.e.f.a puncto.g.vbicūq; volueris signato: pducito lineā.g.e.eruntq; ex scōa h9due linee.e.f.z.g.c.i supficie vna.in hac itaq; superficie super punctū.e.datū in assignata linea scōm pfiliuz 23.primi constitue angulū equalē angulo.b.a.c.z ipse sit.f.e.g. debinc ex linea.a.d.abscinde lineam.a.b.sicut volueris z a puncto.b. producito perpendicularem b.k.ad superficiē in qua sunt due linee.a.b.z.a.c.qō qualiter faciendum sit.11.huius docuit:nec sit igitur tibi cura de puncto .k. Nihil eni refert vtz ppendicularis b.k.occurrat supficiei in qua sunt due linee.a.b.z.a.c.inter ipsas lineas aut extra aut in eaz altera ducito tū lineā.a.k.positoq; puncto.l.in linea.a.b.vbicūq; volueris ptrahe lineas.k.l.z.l.b.z pone angulū.f.e.m.in supficie lineaz.e. f.z.e.g. equalē angulo.b.a.k.z lineā.e.m.equalē linee.a.k.z ex linea.e.f. sume lineā .e.p. equalē linee.a.l.z a puncto.m.educ lineā.m.n.ppendiculare ad superficiē in qua sunt due linee.e.f.z.e.g.z pone eā equalē.b.k.z protrahe lineas.c.n.n.p.z.p.m. dico igit̄ tres lineas.e.f.e.g.e.n.cōtinere angulū solidū in puncto.e.equalē angulo.a.propositō: cū sint eni ex ypothesi duo latera.a.k.z.k.b.triāguli.a.k.b.equalia duobus lateribus.e.m.z.m.n.trianguli.e.m.n.z anguli qui sunt ad.k.z ad.m recti ex diffinitione linee perpendiculariter erecte supra supficiē erunt ex quarta p/mi due linee.a.b.z.e.n.equales:per eandē quoq; erunt due linee.k.l.z.m.p.equales.ideoq; etiā p eandē.b.l.z.n.p.equales:cum sint.b.k.z.k.l.equāles.m.n.z.m p.z anguli.b.k.l.z.m.n.p.recti p.s.igit̄ primi erit angulus.n.e.p. equalis angulo.b.a.l.Simili quoq; modo pbabis angulū.g.e.n.esse equalē angulo.c.a.d.constat itaq; nos effecisse qō volumus:hunc si studiosus institeris quotcūq; lateribus a,solidus angulus ppositus cōtineat qō a te petit̄ sine offēdiculo perficere poteris

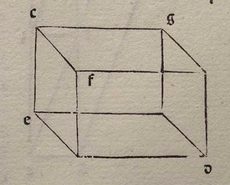



## Propositio .27.

Super assignatā lineam dato solido equidistantium supficierum simile solidum constituere. ¶Sit assignata linea.a .b.de cuius situ vtrū in plano iaceat vel sursum exurgat nihil curet:sitq; assignatū palellogramū solidū corpus.c.d.cui sup lineā.a.b.iubemur simile solidū fabricare.Sint igit̄ tres linee ptinentes superficiales angulos ex quibus ponit̄ solidus angulus.c.inscripte litteris.c.e.c.f.c.g.At scōm p/cepta premisse super punctū.a.linee.a.b.cōstituat̄ angulus solidus equalis. c.qđ cōtineāt tres linee.a.b.a.b.a.k.z auxilio. 10.sexti sit pportio.c.e.ad.a.b.z.c.f.ad a.b.z.g.c.ad.a.k. pportio vna : debinc a trib9 punctis.b.b.k. ptrahant̄ sex linee b.l.equidistans linee.a.b.z.b.m.equidistans linee.a.k.itez.b.l.equidistās linee a.b.z.b.n.equidistans linee.a.k.rursus quoq;.k.n.equidistans.a.b.z.k.m. equidistans.a.b.amplius aūt ptrahant̄.m.p.equidistans.b.l.z.p.l.equidistans.b.m ptrahat̄ quoq; z linea.p.n .eritq; cōpletū solidū palellogramū.a.p. quod dico cē simile solido.c.d.hoc aūt ex dione silium supficiez z dione silium corpoz si earum memineris facile cōcludes.




## Propositio .28.

Si supficies aliqua solidū palellogramū sup duas quaslibz oppositas supficies eius terminales z sup eaz duas diametros secet eādē supficiē corp9 illud p equalia secare necesse est.¶Sit corpus.a.b.solidū palellogramū de quo sit positum q supficies.a.b.c.d.secet ipsū sup diametros duaz superficierū oppositaz ipsū solidū terminātiū q̄ sint .a. d.z.c.b .dico q ipsa diuidit istud solidu



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